Prostaglandins, Leukotrienes and Essential Fatty Acids (2000) **62**(6), 387–389
© 2000 Harcourt Publishers Ltd

Subject Index

A

Adenosine triphosphatase (ATPase), inhibition of duodenal enterocyte MG^{2+}-ATPase by arachidonic acid and possible involvement of protein kinase C, 183
Adipogenesis, relationship with osteoclastogeneis in murine stromal cells derived from bone marrow, 319
Allergic pulmonary inflammation, involvement of LTD_4, 361
Allicin from garlic powder, effect on serum lipids and blood pressure, 253
Alveolar apical membranes, preferential distribution of long chain PUFAs in phosphatidyl ethanolamine fraction, 341
Amnion: subcellular localization of prostaglandin H synthase-2 in human amnion cell line, 7
Angiotensin II, stimulation of hypertrophic growth in ventricular myocytes: roles of PKC and $PGF_{2\alpha}$, 233
AP-1, epidermal nuclear, modulation of expression by 13-HODE and HETrE, 13
Arachidonic acid (AA)
  effect of supplementation of arachidonic acid or combination of AA plus docosahexaenoic acid on fatty acid composition, 335
  influence of fumonisin B_1 on effects in oesophageal cancer cells (review), 75
  inhibition of duodenal enterocyte Mg^{2+}-ATPase and possible involvement of protein kinase C, 183
  involvement in stress-induced IL-6 synthesis in osteoblasts, 189
Aspirin, effect on intestinal tumour burden in *$Apc^{Min/+}$* mice, 269

B

Blood pressure, effect of allicin from garlic powder, 253
Bone marrow cells, relationship between osteoclastogenesis and adipogenesis, 319
Breast cancer cells, mediation of action of gamma linolenic acid by peroxisome proliferator activated receptor-γ, 119
Breast milk, effect of supplementation or arachidonic acid or combination of AA plus docosahexaenoic acid on fatty acid composition, 335

C

Cancer
  breast, mediation by peroxisome proliferator activated receptor-γ of action of gamma linolenic acid on cancer cells, 119
  intestinal, chemopreventive effect of aspirin and indomethacin, 269
  oesophageal, influence of fumonisin B_1 on effects of arachidonic acid and prostaglandins E2 and A2 on cancer cells (review), 75
  pancreatic: inhibition of liver metastasis of BOP-induced pancreatic cancer by α-linolenic acid in combination with linoleic acid, 329
Cardiolipin, preferential accumulation of linoleic acid, metabolism of n-9, n-6 and n-3 fatty acids in hepatoma Morris 7777 cells, 299
Colorectal tumours, chemopreventive effect of aspirin and indomethacin, 269
Cyclooxygenase
  regulation of catalysis by phospholipid hydroperoxide glutathione peroxidase in A431 cells, 261
  synthesis, nitric oxide inhibition in rat oviduct, 239
Cytokines, pro-inflammatory, effect on 15-hydroxyprostaglandin dehydrogenase and prostaglandin metabolizing activity, 1
Cytosol, removal of haemoglobin by zinc sulfate and application to study of lipoxygenase, 97

D

Diabetes mellitus
  effect of L-arginine-nitric oxide system on metabolism of EFAs, 35
  modifications of TXA_2 and PGI_2 plasma levels and some other biochemical parameters in non-insulin dependent diabetes mellitus, 285
Diet
  effect of docosahexaenoic acid and eicosapentaenoic acid on lipopolysaccharide-induced interleukin-1ß mRNA induction in mouse spleen leukocytes, 147
  effect of protein restriction on $\Delta 9$ desaturase (EC 1.14.99.5) activity in lactating rat, 169
  gamma-linolenic acid supplements, additional protection against ventricular fibrillation in aged rats on linoleic acid rich diets, 129
Docosahexaenoic acid, dietary
  effect on lipopolysaccharide-induced interleukin-1ß mRNA induction in mouse spleen leukocytes, 147
  effect of supplementation of AA plus docosahexaenoic acid on breastmilk fatty acid composition, 335

E

Eicosanoids
  effect of hyperlipoproteinaemia-induced oxidation injury: modulation of (patho-)physiology of human lymphatics, 47
  metabolism, effect of garlic and onions (review), 55
Eicosapentaenoic acid
  dietary, effect on lipopolysaccharide-induced interleukin-1ß mRNA induction in mouse spleen leukocytes, 147
  effect on growth and survival of J774 macrophages, 201
Enterocytes, duodenal: inhibition of duodenal enterocyte Mg^{2+}-ATPase by arachidonic acid and possible involvement of protein kinase C, 183
Epidermal growth factor, induction of changes in sphingolipid levels in osteoblastic cells, 225
Erection, penile, role of prostaglandins, 137
Essential fatty acids *see under* Fatty acids

F

Fatty acids
  breast milk, effect of supplementation of arachidonic acid or combination of AA plus docosahexaenoic acid, 335
  effects of n-3 fatty acids on growth and survival of J774 macrophages, 201
  essential
    effect of L-arginine-nitric oxide system on metabolism of EFAs in diabetes, 35
    intestinal absorption in rat, 27

long-chain, effects on urothelial cells in organ culture, 249
metabolism of n-9, n-6 and n-3 fatty acids in hepatoma Morris 7777 cells: preferential accumulation of linoleic acid in cardiolipin, 299
polyunsaturated
changes in n-6 and n-3 PUFAs during lipid-peroxidation of mitochondria from rat liver and brain: effect of α-tocopherol, 379
effect on dexamethasone-induced gastric mucosal damage, 85
preferential distribution of long chain PUFAs in phosphatidyl ethanolamine fraction of alveolar apical membranes, 341
Fish oil: comparison of maritime pine oil and fish oil effects on plasma lipoproteins in apolipoprotein E-deficient mice, 307
Fumonisin B_1, influence on effects of arachidonic acid and prostaglandins E2 and A2 in oesophageal cancer cells (review), 75

G

Gamma linolenic acid (GLA)
additional protection against ventricular fibrillation in aged rats fed linoleic acid rich diets, 129
effect of peroxisome proliferator activated receptor-γ in breast cancer cells, 119
Garlic
effect of allicin from garlic powder on serum lipids and blood pressure, 253
effect on eicosanoid metabolism (review), 55
Gastric mucosa damage, dexamethasone-induced, effect of polyunsaturated fatty acids, 85
Granulocyte macrophage-colony stimulating factor, effect on PGE_2 like activity of small intestine during total body irradiation, 349
Guanosine-3′, 5′-monophosphate (GMP), cyclic, effect on corporal smooth muscle tone and its modulation by cyclo-oxygenase products, 153

H

Haemoglobin removal from mammalian tissue cytosol by zinc sulfate, application to study of lipoxygenase, 97
Heart disease: additional protection against ventricular fibrillation of gamma linolenic acid in aged rats on linoleic acid rich diets, 129
Hepatoma: metabolism of n-9, n-6 and n-3 fatty acids in hepatoma Morris 7777 cells - preferential accumulation of linoleic acid in cardiolipin, 299
20-Hydroxyarachidonic acid (20-HETE): determination of free and glucuronide conjugated 20-HETE in urine, 175
15-Hydroxyeicosatrienoic acid (15-HETrE), topical, reversal of skin hyperproliferation by modulation of AP-1, 13
13-Hydroxyoctadecadienoic acid (13-HODE), topical, reversal of skin hyperproliferation by modulation of AP-1, 13
15-Hydroxyprostaglandin dehydrogenase (PGDH), effects of pro-inflammatory cytokines, 1
Hyperlipoproteinaemia, eicosanoid generation and responsiveness of human lymphatics, 47
Hypertension in children and adolescents, roles of platelet function, thromboxane, blood lipids and nitric oxide, 293

I

Indomethacin, effect on intestinal tumour burden in $Apc^{Min/+}$ mice, 269
Interleukin-1α (IL-1α), augmentation of prostaglandin synthesis in pregnant rat uteri, 243
Interleukin-1ß (IL-1ß): effect of dietary docosahexaenoic acid and eicosapentaenoic acid on lipopolysaccharide-induced IL-1ß mRNA induction in mouse spleen leukocytes, 147
Interleukin-6 (IL-6), stress-induced synthesis in osteoblasts, involvement of arachidonic acid, 189
Intestine
effect of GM-CSF on PGE_2 like activity of small intestine during total body irradiation, 349
tumours, chemopreventive effect of aspirin and indomethacin, 269

L

L-arginine-nitric oxide system, effect on metabolism of EFAs in diabetes, 35
Lactation, effect of protein restriction on Δ9 desaturase (EC 1.14.99.5) activity, 169
Leukotrienes: involvement of LTD_4 in allergic pulmonary inflammation in mice and modulation by cystLT_1 antagonist MK-571, 361
Linoleic acid
inhibition of liver metastasis of BOP-induced pancreatic cancer by α-linolenic acid in combination with linoleic acid, 329
preferential accumulation in cardiolipin, metabolism of n-9, n-6 and n-3 fatty acids in hepatoma Morris 7777 cells, 299
Linolenic acid
gamma *see* Gamma linolenic acid
inhibition of liver metastasis of BOP-induced pancreatic cancer by α-linolenic acid in combination with linoleic acid, 329
Lipids
blood, role in hypertension of children and adolescents, 293
peroxidation in experimental septic shock, vitamin E and, 195
serum, effect of allicin from garlic powder, 253
Lipoproteins: comparison of maritime pine oil and fish oil effects on plasma lipoproteins in apolipoprotein E-deficient mice, 307
Lipoxygenase
haemoglobin removal from mammalian tissue cytosol and, 97
regulation of 12-lipoxygenase catalysis by phospholipid hydroperoxide glutathione peroxidase in A431 cells, 261
Low-density lipoprotein (LDL), effects of glycation/glycoxidation on liberation of 8-epi-$PGF_{2\alpha}$ during oxidation, 217
Low-density lipoprotein (LDL)-apharesis, decrease of plasma levels and urinary excretion of 8-epi-$PGF_{2\alpha}$ by, 209
Lymphatics, (patho-)physiology, modulation by hyperlipoproteinaemia, 47

M

Macrophages: effect of n-3 fatty acids on growth and survival of J774 macrophages, 201
Milk, breast *see* Breast milk
Mitochondria from rat liver and brain, lipid-peroxidation, effect of α-tocopherol, 379
Muscle, smooth *see* Smooth muscle

N

Nitric oxide (NO)
effect of L-arginine-nitric oxide system on metabolism of EFAs in diabetes, 35
effects on activities of prostaglandin endoproxidase H synthase-1 and -2 in vascular endothelial cells, 161
enhancement of PGI_2 production by pulmonary artery smooth muscle cells, 369
inhibition of prostanoid synthesis in rat oviduct, 239
role in hypertension of children and adolescents, 293
role in IL-1α augmentation of prostaglandin synthesis in rat uteri, 243
Non-steroidal anti-inflammatory drugs (NSAIDs), chemopreventive effect against intestinal tumours, 269
Nuclear transcription factors, reversal of skin hyperproliferation by 13-HODE and 15-HETrE modulation of Ap-1, 13

© 2000 Harcourt Publishers Ltd

O

Oesophageal cancer cells, influence of fumonisin B_1 on effects of arachdonic acid and prostaglandins E2 and A2 (review), 75
Onions
  effect on eicosanoid metabolism (review), 55
  mechanism of antiplatelet effect, 277
Organ culture, effects of long-chain fatty acids on urothelial cells, 249
Osteoblasts/Osteoblastic cells
  amplification of PGF2α-induced phosphoinositide hydrolysis: involvement of p38 MAP kinase, 355
  changes in sphingolipid levels induced by epidermal growth factor, 225
  involvement of arachidonic acid in stress-induced IL-6 synthesis, 189
Osteoclastogenesis, relationship with adipogenesis in murine stromal cells derived from bone marrow, 319

P

Pancreatic cancer: inhibition of liver metastasis of BOP-induced pancreatic cancer by α-linolenic acid in combination with linoleic acid, 329
Penile erection, role of prostaglandins, 137
Peroxisome proliferator activated receptor-γ (PPAR-γ), mediation of action of gamma linolenic acid in breast cancer cells, 119
PGDH *see* 15-Hydroxyprostaglandin dehydrogenase
Phosphoinositide hydrolysis, PGF2α-stimulated, amplification by sphingosine 1-phosphate, 355
Phospholipid hydroperoxide glutathione peroxidase (PHGPx), regulation of cyclooxygenase and 12-lipoxygenase catalysis in A431 cells, 261
Pine oil, maritime: comparison of maritime pine oil and fish oil effects on plasma lipoproteins in apolipoprotein E-deficient mice, 307
Platelet function
  effects of non-carboxylic TXA_2 receptor antagonist (BK-531) on platelet function, 311
  role in hypertension of children and adolescents, 293
Polyunsaturated fatty acids *see under* Fatty acids
Pregnancy: IL-1α augmentation of prostaglandin synthesis in rat uteri, 243
Prostacyclin: renal synthesis of prostacyclin and thromboxane and differential effects of short-term saline loading, 111
Prostaglandin A_2 (PGA_2), influence of fumonisin B_1 on effects in oesophageal cancer cells (review), 75
Prostaglandin E (PGE): pharmacological characterization of EP_4 prostaglandin receptors on adenylyl cyclase in Chinese hamster ovary cells, 21
Prostaglandin E_2 (PGE_2)
  effect of GM-CSF on PGE_2 like activity of small intestine during total body irradiation, 349
  influence of fumonisin B_1 on effects in oesophageal cancer cells (review), 75
Prostaglandin endoperoxide H synthase-1 and -2, effects of nitric oxide in activity in vascular endothelial cells, 161
Prostaglandin $F_{2\alpha}$ ($PGF_{2\alpha}$)
  decrease of plasma levels and urinary excretion of 8-epi-$PGF_{2\alpha}$ by LDL-apheresis, 209
  effects of glycation/glycoxidation on liberation of 8-epi-$PGF_{2\alpha}$ from low density lipoprotein during oxidation, 217
  role in angiotensin II-induced hypertrophy of ventricular myocytes, 233
Prostaglandin H synthase-2, subcellular localization in human amnion cell line, 7
Prostaglandin I_2 (PGI_2)
  modifications in plasma levels in non-insulin dependent diabetes mellitus, 285
  production enhancement by pulmonary artery smooth muscle cells, 369
Prostaglandins
  effect of cytokines on biosynthesis and metabolism, 1
  role in penile erection, 137
  signaling pathways, subcellular localization of prostaglandin H synthase-2 in human amnion cell line and, 7
  synthesis in pregnant uterus, augmentation by $IL_{1\alpha}$, 243
Prostanoid synthesis, nitric oxide inhibition in rat oviduct, 239
Protein kinase C (PKC)
  possible involvement in inhibition of duodenal enterocyte Mg^{2+}-ATPase by arachidonic acid, 183
  role in angiotensin II-induced hypertrophy of ventricular myocytes, 233
Protein restriction, effect on Δ9 desaturase (EC 1.14.99.5) activity in lactating rat, 169
Pulmonary artery smooth muscle cells, nitric oxide enhancement of PGI_2 production, 369
Pulmonary inflammation, allergic, involvement of LTD_4, 361

R

Renal synthesis of prostacyclin and thromboxane: differential effects of short-term saline loading, 111

S

Salt balance, renal synthesis of prostacyclin and thromboxane, 111
Septic shock, lipid peroxidation, vitamin E and, 195
Skin, epidermal hyperproliferation, reversal by suppression of proto-oncogene (AP-1) by topical application of 13-HODE and 15-HETrE, 13
Smooth muscle
  angiotensin II-induced hypertrophy: roles of PKC and $PGF_{2\alpha}$, 153
  effect of cyclic GMP on corporal smooth muscle tone and its modulation by cyclo-oxygenase products, 153
  nitric oxide enhancement of PGI_2 production by pulmonary artery smooth muscle cells, 369
Sphingolipids, changes in levels induced by epidermal growth factor in osteoblastic cells, 225
Sphingosine 1-phosphate, amplification of PGF2α-induced phosphoinositide hydrolysis in osteoblasts: involvement of p38 MAP kinase, 355
Spices: antioxidant activity of selected Indian spices, 107

T

Thromboxane
  renal synthesis of prostacyclin and thromboxane: differential effects of short-term saline loading, 111
  role in hypertension of children and adolescents, 293
Thromboxane A_2 (TXA_2), modifications in plasma levels in non-insulin dependent diabetes mellitus, 285
Thromboxane A_2 (TXA_2) receptor antagonists: effects of non-carboxylic TXA_2 receptor antagonist (BK-531) on platelet function, 311
α-Tocopherol, effect on changes in n-6 and n-3 PUFAs during lipid-peroxidation of mitochondria from rat liver and brain, 379

U

Urothelial cells, effects of long-chain fatty acids, organ culture, 249
Uterus, pregnant, IL-1α augmentation of prostaglandin synthesis, 243

V

Ventricular fibrillation, additional protection of gamma linolenic acid in aged rats on linoleic acid rich diets, 129
Vitamin E and lipid peroxidation in experimental septic shock, 195

© 2000 Harcourt Publishers Ltd

Prostaglandins, Leukotrienes and Essential Fatty Acids (2000) **62**(6), 391–392
© 2000 Harcourt Publishers Ltd

Author Index

A

Abbey, M., 201
Afzal, M., 55
Agnoli, G.C., 111
Akhilender Naidu, K., 107
Al-Enezi, F., 253
Al-Qattan, K.K., 253
Alava, M.A., 299
Ali, M., 55, 253
Anel, A., 299
Asset, G., 307

B

Baik, E.J., 277
Basu, S., 195
Baugé, E., 307
Bereczki, Cs., 293
Bianchi, P., 75
Blain, J.F., 361
Boersma, E., 335
Borgatti, R., 111
Bryce, R.P., 119

C

Cacciari, M., 111
Campbell, F.M., 341
Carpio, L.C., 225
Cartledge, J., 137
Catalá, A., 379
Catala, J., 285
Chang, W.-C., 261
Chanussot, B., 169
Charnock, J.S., 129
Chen, C.-J., 261
Chiu, C.-H., 269
Crider, J.Y., 21

D

Dallongeville, J., 307
Das, U.N., 35,85
David, J.-L., 311
de Kock, M., 75
Delarge, J., 311
Diggle, C.P., 249
Dogné, J.-M, 311
Dutta-Roy, A.K., 341
Dziak, R., 225

E

Eardley, I., 137, 153
Eriksson, M., 195
Eykholt, R.L., 7

F

Farina, M., 239, 243
Ferlitsch, A., 209
Franchi, A.M., 239, 243
Fruchart, J.-C., 307
Fyfe, D.J., 201

G

Gelderblom, W.C.A., 75
Gimeno, M., 239, 243
Gonzalez, B., 299
Goodwin, V., 1
Gordon, M.J., 341
Green, A.T., 27
Griffin, B.W., 21
Guski, H., 329

H

Haag, M., 183
Hamazaki, T., 147
Haszon, I., 293
Hata, N., 147
Hollande, E., 285
Hover, G.C., 97
Huang, H.-S., 261

I

Iturralde, M., 299

J

Jacobi, C.A., 329
Jiang, W.G., 119
Jordan, C.A., 75
Joubert, A.M., 75
Joubert, F., 75
Joyce, A.D., 153
Jung, Y.S., 277

K

Kaliman, J., 47
Katagiri, K., 147
Kawamura, H., 355
Keelan, J.A., 1
Khanafer, R.M.A., 253
Kilian, M., 329
Kiliç, D., 349
Kim, M.H., 277
Koopmann, M., 335
Kozawa, O., 189, 355
Krishna Mohan, I., 35
Kruger, M.C., 183
Kulkarni, A.P., 97

© 2000 Harcourt Publishers Ltd

L

Lasserre, B., 285
Leclerc, J., 169
Lee, S.H., 277
Lenzi, P., 111
Leonard, F., 183
Leval, X. de, 311
Lin, S.-B., 261
Lottering, M.L., 75

M

McEntee, M.F., 269
Magada, O.N., 183
Manjari, V., 85
Mano, Y., 161
Mansel, R.E., 119
Maree, J.L., 75
Marinelli, M., 111
Marvin, K.W., 7
Masereel, B., 311
Menzel, E.J., 217
Mesnage, S., 1
Minhas, S., 137, 153
Misawa, Y., 147
Mitchell, M.D., 1, 7
Miwa, M., 189
Monaghan, A.S., 341
Moon, C.H., 277
Morita, I., 161, 319
Morrison, J.B.F., 153
Muimo, R., 341
Mukhopadhyay, S., 341
Müller, J.M., 329
Mullins, J.G.Ll., 27
Murota, S., 161, 319
Muskiet, F.A.J., 335
Mustafa, T., 253

N

Nagy, E., 293
Narce, M., 169
Navarro-Delmasure, Ch., 285
Németh, I., 293
Neven, P., 311

O

Ogando, D., 239, 243
Oguogho, A., 47, 209
Okuyama, H., 147
Onodera, M., 161
Onozaki, K., 147
Oriji, G.K., 233

P

Panzer, A., 75
Papp, F., 293
Park, S.W., 277
Perez Martinez, S., 239
Pham, H., 13
Pham Huu Chanh, A., 285
Piñeiro, A., 299
Pitt, E., 249
Poisson, J.-P., 169
Punchard, N.A., 27

R

Redfern, A., 119
Reinalter, S., 175
Ribeiro, M.L., 239, 243
Rolin, S., 311

S

Sakaguchi, K., 319
Sallai, É., 293
Sayan, H., 349
Schimke, I., 329
Schweer, H., 175
Seegers, J.C., 75
Seyberth, H.W., 175
Sharif, N.A., 21
Shiau, H., 225
Shobana, S., 107
Sinzinger, H., 47, 209, 217
Sirois, P., 361
Smit, E.N., 335
Sobal, G., 217
Southgate, J., 249
Stipo, L., 111

T

Thompson, R.P.H., 27
Thomson, M., 55
Tokuda, H., 189
Torday, Cs., 293
Trejdosiewicz, L.K., 249
Túri, S., 293

U

Uematsu, T., 189, 355

W

Watanabe, K., 369
Watanabe, S., 147
Watzer, B., 175
Wauters, J., 311
Wen, F.-Q., 369
Wenger, F.A., 329
Whelan, J., 269
Wolff, R.L., 307

X

Xi, S., 13

Y

Yoshida, M., 36

Z

Zanetti, R., 379
Ziboh, V.A., 13

© 2000 Harcourt Publishers Ltd